and, if this box () contains an *

US

DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION Original Supplemental \mathbf{X} Substitute As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a United States patent is sought on the invention entitled HIGH THROUGHPUT FUNCTIONAL GENOMIC SCREENING METHODS FOR OSTEOARTHRITIS the specification of which: is attached hereto. was filed on as Application No. (day/month/year) and, if this box () contains an * was amended on (day/month/year) X was filed as Patent Cooperation Treaty international Application No. PCT/EP2004/004055 16/04/2004 (day/month/year) and, if this box (□) contains an × entered the national stage in the United States and was accorded Application No.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

was amended, subsequent to entry into the national stage, on

I acknowledge my duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including, for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or Patent Cooperation Treaty international filing date of the continuation-in-part application.

(day/month/year)

I hereby claim the benefit under 35 U.S.C. 119(a)-(d) or (f) or 365(b) of any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate listed below and under 35 U.S.C. 365(a) of any Patent Cooperation Treaty international application(s) designating at least one country other than the United States listed below and have also listed below any foreign application(s) for patent, inventor's certificate or plant breeder's right certificate and Patent Cooperation Treaty international application(s) designating at least one country other than the United States for the same subject matter and having a filing date before that of the application the priority of which is claimed for that subject matter:

COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	F	RIORIT	TY CLA	IMED
				Yes		No
				Yes		No
				Yes		No
				Yes		No
				Yes		No
I hereby claim the benefit below:	under 35 U.S.C. 119(e) o	f any United States provi	ision	al applic	cation(s) listed
APPLICATION NO.		FILING DATE (day/month/year)				
60/462022		49/04/2002				

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

United States	United States	Status (Pending,	International	
Application No.	Filing Date	Abandoned or U.S.	Application No.	and Filing Date
	(day/month/year)	Patent No.)		(day/month/year)

If this box (\square) contains an x \boxtimes , I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

Please send all correspondence relating to this application to the address associated with Customer No. 001095.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of sole or first joint inventor	Dale Lesley BODIAN		
Inventor's signature		Date -	(day/month/year)
Residence	Whippany, NJ 07981, USA		• .
Citizenship	citizen of USA		
Post Office Address	2105 Harvest Court Whippany, NJ 07981 USA		
Full name of second joint inventor, if any	Sherif DAOUTI		
Inventor's signature	Sherif Daoute	Date -	9 / 9 / 05 - (day/month/year)
Residence	Hasbrouck Heights, NJ 07604, USA		
Citizenship	citizen of USA		
Post Office Address	137 Berkshire Road Hasbrouck Heights, NJ 07604 USA		

IMPORTANT: Before this declaration is signed, the patent application (the specification, the claims and this declaration) must be read and understood by each person signing it, and no changes may be made in the application after this declaration has been signed.

Full name of third joint inventor, if any	Chandrika Saidapet KUMAR		
Inventor's signature		Date _	(day/month/year)
Residence	Acton MA 01720, USA		
Citizenship	citizen of USA		
Post Office Address	2 Beechnut Street Acton MA 01720 USA		
Full name of fourth joint inventor, if any	Brian Jude LATARIO		
Inventor's signature		Date -	(day/month/year)
Residence	Groton MA 01450, USA		
Citizenship	citizen of USA		
Post Office Address	495 Martins Pond Road Groton MA 01450 USA		
Full name of fifth joint inventor, if any	Joseph QUINTAVALLA		
Inventor's signature		Date -	(day/month/year)
			(day/montil/year)
Residence	New Providence, NJ 07974, USA		
Citizenship	citizen of USA		
Post Office Address	53 Woodbine Circle New Providence, NJ 07974 USA		

DECLARATION AND POWER OF ATTORNEY FOR UNITED STATES PATENT APPLICATION

X	Original	□ St	upplemental		Substitute
As a	below named inventor, I here	by decla	are that:		
Му г	esidence, post office address	and citiz	enship are as stated below next to	my r	name, and
and j	ieve I am the original, first an joint inventor (if more than on h a United States patent is so	e name	nventor (if only one name is listed listed listed below) of the subject matte the invention entitled	oelov r whi	v) or an original, first ch is claimed and for
HIGH	H THROUGHPUT FUNCTION	IAL GEI	NOMIC SCREENING METHODS F	OR (OSTEOARTHRITIS
the s	pecification of which:				
	is attached hereto.				
	was filed on (day	//month/y	as Application No.		
	and, if this box (□) contain	s an ×			
	was amended on				
		(day/m	onth/year)		
X	was filed as Patent Cooper	ation Tr	eaty international Application No.		
	PCT/EP2004/004055	on	16/04/2004 (day/month/year)		
	and, if this box (□) contains	s an 🗴			
	☐ entered the national	ıl stage i	in the United States and was accord	ded /	Application No.
	and, if this box (□) contains	s an ×	_		
	was amended, sub-	sequent	to entry into the national stage, on	_	
					(day/month/year)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) specifically referred to above and, if this application was filed as a Patent Cooperation Treaty international application, by any amendments made during the international stage (including any made under Patent Cooperation Treaty Rule 91, Article 19 and Article 34).

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COUNTRY/REGION (OR P.C.T.)	APPLICATION No.	FILING DATE (day/month/year)	F	PRIORIT	Y CLA	IMED
				Yes		No
				Yes		No
				Yes		No
				Yes		No
				Yes		No
I hereby claim the benefit below:	t under 35 U.S.C. 119(e) o	of any United States provi	ision:	al applico	ation(s)) listed
APPLICATION NO.	,	FILING DATE (day/month/year)				

60/463933 18/04/2003

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s) listed below and under 35 U.S.C. 365(c) of any Patent Cooperation Treaty international application(s) designating the United States listed below:

United States	United States	Status (Pending,	Interna	ational
Application No.	Filing Date	Abandoned or U.S.	Application No.	and Filing Date
	(day/month/year)	Patent No.)		(day/month/year)

I hereby appoint all of the registered practitioners associated with Customer No. 001095, respectively and individually, as my attorneys and agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

If this box (\Box) contains an x \boxtimes , I hereby authorize the registered practitioners associated with Customer No. 001095 and any others acting on my behalf to take any action relating to this application based on communications from Corporate Intellectual Property of Novartis International AG, Basle, Switzerland, or an affiliate thereof or a successor thereto, without direct communication from me.

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Full name of sole or first joint inventor	Dale Lesley BODIAN		
Inventor's signature	Dale Legley Bodia	Date -	24/9/oS (day/month/year)
Residence	Whippany, NJ 07981, USA		
Citizenship	citizen of USA		
Post Office Address	2105 Harvest Court Whippany, NJ 07981 USA		
Full name of second joint inventor, if any	Sherif DAOUTI		
Inventor's signature		Date .	(day/month/year)
Residence	Hasbrouck Heights, NJ 07604, USA		
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Post Office Address	137 Berkshire Road Hasbrouck Heights, NJ 07604 USA		

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